



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3943-041
Job Sheet 190469



Part No: D3943-041

Job Qty: 4 pcs

Part Name: Ground Handling Crank Assembly



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/8/19

Job Tracking No:

Due Date: 3/8/19

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV E SHEETS 1,2 IPP Rev:A New Issue 09-06-02 EC Verified By: JLM IPP RevB: add DEO DD 09.11.18 verified by:JLM IPP Rev:C as per dwg REV.C DD 10.02.22 verified by:EC IPP REV:D 11.08.16 AS PER REV.E DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard Setup Hrs	Run Hrs	Workcenter/Supplier	Sign-off
100	Purchasing	4 pcs	3/8/19	3/8/19	0.00	0.00	Purchasing - 1	FEB 22 2019
							Purchasing - 2	
							Purchasing - 3	
110	Packaging 2-1 - Receive - B4B	4 pcs	3/8/19	3/8/19	0.00	0.00	Packaging 2 - 1 - B4B	
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	FEB 22 2019
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	



Container No: S155767



Part: D3943 - 041

Job No: 190469

Serial No/Batch: S155767

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 02/22/19

Plex 2/8/19 1:49 PM Dart.lajeunesse.marie

				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
120	QC 6	4 pcs	3/8/19	0.00 0.00	QC 6 - 42
					QC 6 - 9
					QC 6 - 68
					QC 6 - 61
130	Large Fab - Welded Assy-2- B4B	4 pcs	3/8/19	0.00 5.88	Large Fab - 1 - B4B
					Large Fab - 10 - B4B
					Large Fab - 2 - B4B
					Large Fab - 3 - B4B
					Large Fab - 4 - B4B
					Large Fab - 5 - B4B
					Large Fab - 6 - B4B
					Large Fab - 7 - B4B
					Large Fab - 8 - B4B
					Large Fab - 9 - B4B
140	Outsource	4 pcs	3/8/19		IMI001-VC 5
150	Packaging 2-2 - Receive - B4B	4 pcs	3/8/19	0.00 0.00	Packaging 2 - 1 - B4B
					Packaging 2 - 2 - B4B
					Packaging 2 - 3 - B4B
					Packaging 2 - 5 - B4B
					Packaging 2 - 4 - B4B
					Packaging 2 - 6 - B4B
					Packaging 2 - 7 - B4B
					Packaging 2 - 8 - B4B
					Packaging 2 - 9 - B4B
					Packaging 2 - 10 - B4B
					Packaging 2 - 11 - B4B
					Packaging 2 - 12 - B4B
					Packaging 2 - 13 - B4B
					Packaging 2 - 14 - B4B
					Packaging 2 - 15 - B4B
					Packaging 2 - 16 - B4B
					Packaging 2 - 17 - B4B
					Packaging 2 - 18 - B4B
					Packaging 2 - 19 - B4B
					Packaging 2 - 20 - B4B
					Packaging 2 - 21 - B4B
					Packaging 2 - 22 - B4B
					Packaging 2 - 23 - B4B
					Packaging 2 - 24 - B4B
					Packaging 2 - 25 - B4B
					Packaging 2 - 26 - B4B
					Packaging 2 - 27 - B4B
					Packaging 2 - 28 - B4B
					Packaging 2 - 29 - B4B
					Packaging 2 - 30 - B4B
					Packaging 2 - 31 - B4B
					Packaging 2 - 32 - B4B
					Packaging 2 - 33 - B4B
					Packaging 2 - 34 - B4B
					Packaging 2 - 35 - B4B

DAS
FEB 27 2019
9-89

ML

N/A

N/A

CERTIFICATE OF CALIBRATION

Instrument #	Description	Serial #
D3943-041	Ground Handling Crank Assembly	5155767

Calibrated By	Date of Calibration	Next Calibration Due
Eric Larocque	21/8/19	1 year after 1st use

Calibrated With	Instrument Due Date	Condition of Instrument Being Calibrated
ENG-07	Jan 25 th 2020	New

All Calibration to be preformed as per instructions QSI 008 with the Approval of Inspection Level 13 per QSI 012

Specification	Tolerance +/-	Results	Pass / Fail
3500 LBS	3500-3700 LBS	3500 LBS	Pass

Preformed By: (Signature & Date)

 21/8/19

DAS
68
AUG 21 2019
9:59



1270 Aberdeen Hawkesbury, Ontario K6A 1K7, Canada Tel (800) 566-4166 Fax (613) 632-9311 dartaerospace.com

170 QC 6	4 pcs	3/8/19	0.00 0.00	Packaging 2 - 36 - B4B	
				QC 6 - 42	
				QC 6 - 9	
				QC 6 - 68	
				QC 6 - 61	
180 Packaging 1-1 - Pick Kit - B4B	4 pcs	3/8/19	0.00 0.00	Packaging 1 - 1 - B4B	
				Packaging 1 - 2 - B4B	
				Packaging 1 - 3 - B4B	
				Packaging 1 - 4 - B4B	
				Packaging 1 - 5 - B4B	
				Packaging 1 - 6 - B4B	
				Packaging 1 - 7 - B4B	
				Packaging 1 - 8 - B4B	
				Packaging 1 - 9 - B4B	
				Packaging 1 - 10 - B4B	
				Packaging 1 - 11 - B4B	
				Packaging 1 - 12 - B4B	
				Packaging 1 - 13 - B4B	
				Packaging 1 - 14 - B4B	
				Packaging 1 - 15 - B4B	
				Packaging 1 - 16 - B4B	
				Packaging 1 - 17 - B4B	
				Packaging 1 - 18 - B4B	
				Packaging 1 - 19 - B4B	
				Packaging 1 - 20 - B4B	
				Packaging 1 - 21 - B4B	
				Packaging 1 - 22 - B4B	
				Packaging 1 - 23 - B4B	
				Packaging 1 - 24 - B4B	
				Packaging 1 - 25 - B4B	
				Packaging 1 - 26 - B4B	
				Packaging 1 - 27 - B4B	
				Packaging 1 - 28 - B4B	
				Packaging 1 - 29 - B4B	
				Packaging 1 - 30 - B4B	
				Packaging 1 - 31 - B4B	
				Packaging 1 - 32 - B4B	
				Packaging 1 - 33 - B4B	
				Packaging 1 - 34 - B4B	
				Packaging 1 - 35 - B4B	
				Packaging 1 - 36 - B4B	
190 Large Fab - Welded Assy-3- B4B	4 pcs	3/8/19	0.00 5.88	Large Fab - 1 - B4B	
				Large Fab - 10 - B4B	
				Large Fab - 2 - B4B	
				Large Fab - 3 - B4B	
				Large Fab - 4 - B4B	
				Large Fab - 5 - B4B	
				Large Fab - 6 - B4B	
				Large Fab - 7 - B4B	
				Large Fab - 8 - B4B	
				Large Fab - 9 - B4B	
200 QC 5	4 pcs	3/8/19	0.00 0.00	QC 5 - 10	
				QC 5 - 12	
				QC 5 - 17	
				QC 5 - 18	
				QC 5 - 19	
				QC 5 - 22	
				QC 5 - 24	
				QC 5 - 3	

				QC 5 - 42	
				QC 5 - 43	
				QC 5 - 49	
				QC 5 - 51	
				QC 5 - 58	
				QC 5 - 68	DAS AUG 21 2019 68
				QC 5 - 9	9-89
				QC 5 - 50	
				QC 5 - 30	
210	Packaging 3-1 - Stock - B4B	4 pcs	3/8/19	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B
					Packaging 3 - 18 - B4B
					Packaging 3 - 19 - B4B
					Packaging 3 - 20 - B4B
					Packaging 3 - 21 - B4B
					Packaging 3 - 22 - B4B
					Packaging 3 - 23 - B4B
					Packaging 3 - 24 - B4B
					Packaging 3 - 25 - B4B
					Packaging 3 - 26 - B4B
					Packaging 3 - 27 - B4B
					Packaging 3 - 28 - B4B
					Packaging 3 - 29 - B4B
					Packaging 3 - 30 - B4B
					Packaging 3 - 31 - B4B
					Packaging 3 - 32 - B4B
					Packaging 3 - 33 - B4B
					Packaging 3 - 34 - B4B
					Packaging 3 - 35 - B4B
					Packaging 3 - 36 - B4B
220	QC 21 - SA	4 pcs	3/8/19	0.00 0.00	QC 21 - SA - 21
					QC 21 - SA - 70
					QC 21 - SA - 53

Part Op 100 - (Purchasing) Issue P/O: 042553 Purchase Part Number: 8143919 Supplier: Princess Auto Certificate of Descriptions: conformity is required Description: 4000 lbs lever chain hoist

110 - (Receive & Inspect for Damage & Mat'l Certs) Ensure material certification is attached

120 - (QC6- All purchased or subcontracted products)

130 - (Fabricate per Drwg) 1-Disassemble chain host as per dwg

140 - Outside service IMI Manufacturing Issue P/O: N/A Sandblast parts

150 - (Receive & Inspect for Damage & Mat'l Certs)

170 - (QC6- All purchased or subcontracted products)

180 - (Pick Kit)

190 - (Fabricate per Drwg) 1-Assemble as per dwg (assy landyard CBL-1240 to CBL-460) 2- touch up with paint if necessary Remove brake/clutch cover (under handle) and apply LPS 3 to entire mechanism and brake/clutch cover so that a seal will be created when the cover is reinstalled Reinstall brake/clutch cover and top gear Apply LPS 3 to all surfaces that will be covered when the handle is reinstalled

200 - (QC5- Inspect part completeness to step on W/O) 1-Calibrate and tag as per dwg and QSI 008 4.4 ***Calibration Cert. filled out***

210 - (Identify as per dwg & Stock Location: _____)

220 - (QC21- Final Inspection - Work Order Release) SEE PAT SMITH FOR REPAIR ARC ONCE SHIPPED OUT OF THE SYSTEM, BOTTOM UP COST TO REMOVE COST IN SYSTEM - ENSURE THERE IS NO STK ON PART PRIOR TO BOTTOM UP

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
8143919	Lever Chain Hoist	4 pcs (1 ea)	100-Purchasing	SI 55765
3408A59 54060	Ball Plunger	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5079297(x2) ✓
AN5-11A	Bolt	4 Ea (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5144958(x2) SI 44846(x2)
CBL-1240 GA	Cable	4 ft (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5157330 ✓
CBL-460 GA	Loop Sleeve	8 Ea (2 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5187872 ✓
D3585-1	Set Screw	4 pcs (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5155189 ✓
D3943-051	Handle Assembly	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5205443
D3943-053	Chain Assembly	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5205281
D3943-3	Handle Extension	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5007480 ✓
D3949-041	Remove Before Flight Flag Assembly	4 pcs (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5161483 ✓
D3954-7	Ratchet Lug	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5090505
D4405-1	Eye And Fork Swivel	4 pcs (1 ea)	180-Packaging 1-1 - Pick Kit - B4B	5307265
HX-15	1/4-20 UNCx3/4 S.H.C.S.	4 Ea (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	7M137473 ✓
HX-16	Nut	4 Ea (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	7M136849 ✓
MS21042L5	Nut	4 Ea (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5180182 ✓
NAS1149F0563P	Washer	4 Ea (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5200164 ✓
S1475	Spring	4 pcs (1 ea) ✓	180-Packaging 1-1 - Pick Kit - B4B	5 PM135386 ✓

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	8143919	4	0	0
180-Packaging 1-1 - Pick Kit - B4B	3408A59	4	7	0
	AN5-11A	4	211	0
	CBL-1240	4	167	0
	CBL-460	8	418	0
	D3585-1	4	37	0
	D3943-051	4	0	0
	D3943-053	4	0	0
	D3943-3	4	15	0
	D3949-041	4	4	0
	D3954-7	4	8	0
	D4405-1	4	1	0
	HX-15	4	46	0
	HX-16	4	41	0
	MS21042L5	4	867	0
	NAS1149F0563P	4	512	0
	S1475	4	7	0

Part Specifications

Specifications could not be found.

Plex 2/8/19 1:49 PM Dart.lajeunesse.marie

Master Unit No
011365

REMOVE AND RETAIN
RUBBER HAND GRIP

DISCARD PIN

RETAIN PIN

REMOVE &
DISCARD HOOK

8143919 LEVER CHAIN HOIST
(SHOWN PRIOR TO MODIFICATION)
(CHAIN SHOWN SHORTENED FOR CLAIRTY)

AN5-11A BOLT
AN960-516 WASHER
MS21042L5 NUT

3408A59
BALL PLUNGER

8143919
LEVER CHAIN HOIST

(CHAIN NOT SHOWN FOR CLAIRTY)

RE-INSTALL
RUBBER HAND-GRIP
HERE

D3943-3
HANDLE EXTENSION

D2690-4 LANYARD

D3949-041 FLAG

HX-16 S/H CAP SCREW

HX-15 S/H CAP SCREW
S-1475 SPRING

CALIBRATION TAG

D3585-1 SET SCREW

RE-INSTALL PIN

D3943-053 CHAIN ASSY

(CHAIN SHOWN SHORTENED FOR CLAIRTY)

D3943-041 GROUND HANDLING CRANK ASSEMBLY

NOTES -041:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3943-041" USING FINE POINT PERMANENT INK MARKER
- 7) CALIBRATION TAG PER DART QSI 008 4.4 (ZN C1-2)

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 190469415
19-02-08

RELEASED
2011-07-29

DESIGN	DSTOW / AJS	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3943	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.	N/A	GROSS WEIGHT TOW CRANK ASSY	NTS
DATE	11.07.27	COPYRIGHT © 2009 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO042553



Supplier: PRA002-VC
Princess Auto Ltd.
P.O. Box 1005
Winnipeg
MB
R3C 2W7 Canada
Phone: 613 247 1651
Fax: 613 247 1657

PO No: PO042553

PO Date: 2/11/19

Due Date: 2/19/19

**Purchase Order
Revision:**

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
FEB 11 2019

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	190469	8143919		Lever Chain Hoist receive pcs	Firmed -		2/19/19	4 Ea	0 Ea	4 Ea	\$188.99/Ea	\$755.96
Line Item Note AS PER DWG D3943 REV. E												

Grand Total: \$755.96

Order Notes

Procurement Quality Clauses
A005 RIGHT OF ENTRY
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 DOCUMENT SPECIAL REQUIREMENTS
A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/11/19 9:29 AM dart.lavoie.chantal

PARCEL PACKING SLIP

To
DART AEROSPACE
1270 Aberdeen St
Att: Chantal Lavoie PO 042553
Hawkesbury ON
K6A 1K7

Order Number 473781776
PO #: 042553

Item	Description	Qty Shipped
#8143919	2 TON LEVER CHAIN HOIST	4

4

PRINCESS AUTO

We value your business - Thank you for your purchase with Princess Auto! This is not an invoice, it is a packing slip. Your order details and invoice are always available online. Visit www.princessauto.com/en/order-status and use your web order number and your email address to look up and print your invoice.

Nous apprécions vous compter parmi nos clients - Merci pour votre achat chez Princess Auto !

Ceci n'est pas une facture, mais plutôt une liste de contenu. Vous pouvez toujours consulter les détails de votre commande et votre facture en ligne. Visitez www.princessauto.com/fr/order-status et inscrivez ensuite votre numéro de commande Web et votre adresse courriel afin de pouvoir consulter et imprimer votre facture.

Easy Returns! If you are not satisfied with your purchase you can return the product by mail or to any Princess Auto retail store.

Retours faciles ! Si vous n'êtes pas satisfait de votre achat, vous pouvez retourner le produit par la poste ou le rapporter dans tout magasin de détail de Princess Auto.



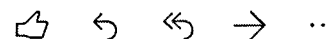
Princess Auto National Call Centre/téléphonique national – 1-800-665-8685
www.princessauto.com

Delete Junk Block ...

Re: PO042553 Princess Auto



Natasha Belanger
Fri 2/22/2019 8:15 AM
Chantal Lavoie



Thank you for the clarification.

Thank you,
Natasha
Receiver

DART AEROSPACE
T 1 613 632-5200 > 248
F 1 613 632-5246
1 800 556- 4166
www.dartaerospace.com

From: Chantal Lavoie
Sent: Friday, February 22, 2019 8:13 AM
To: Natasha Belanger
Subject: RE: PO042553 Princess Auto

Hi Natasha,
No c of c required.
Thanks
Chantal

From: Natasha Belanger <nbelanger@dartaero.com>
Sent: Thursday, February 21, 2019 1:40 PM
To: Chantal Lavoie <clavoie@dartaero.com>
Subject: PO042553 Princess Auto

Good day,

The above PO has a job & the PO says it requires a COC, please advise.

Thank you,
Natasha
Receiver

DART AEROSPACE